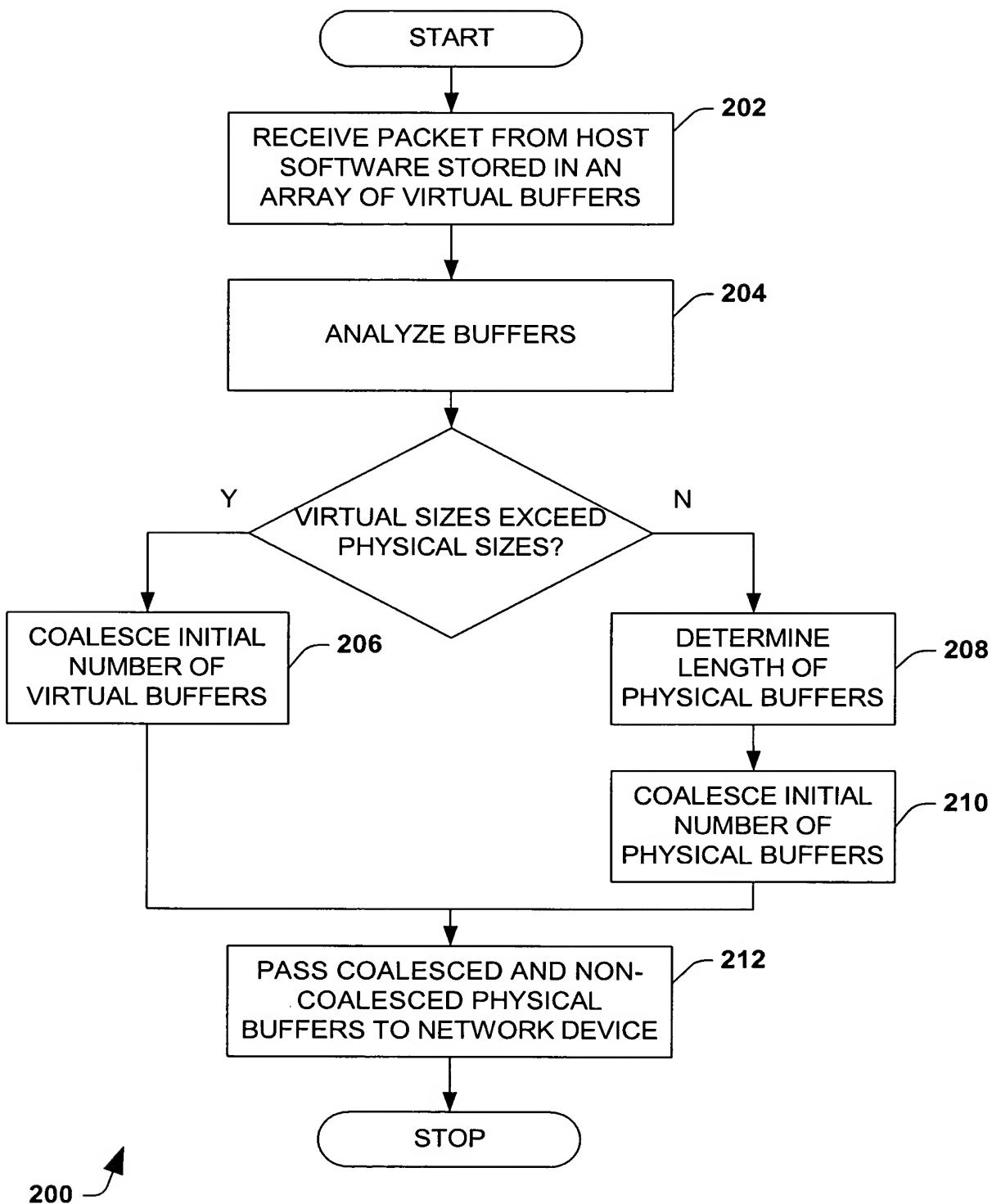
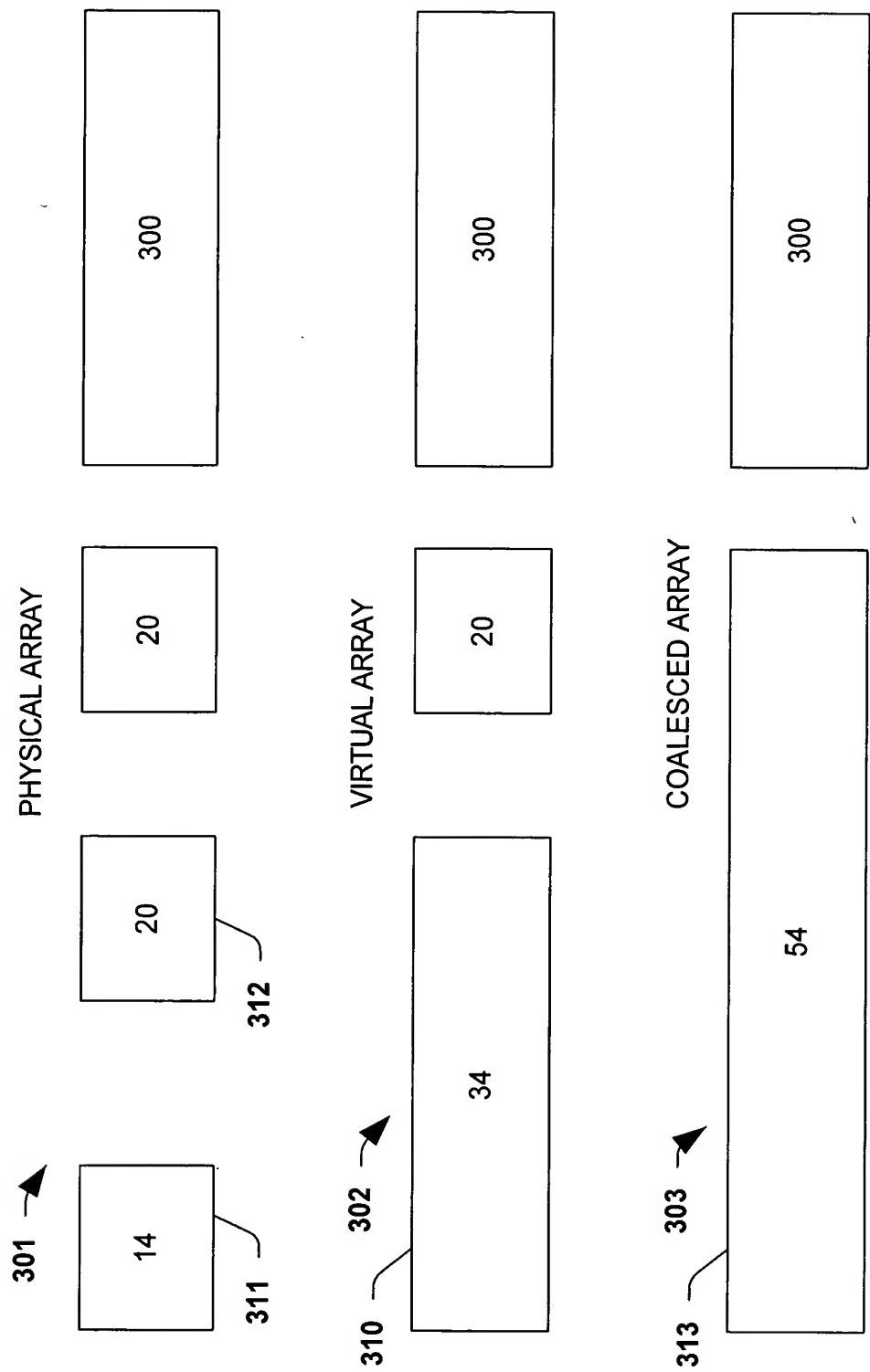


**FIG. 1**

**FIG. 2**



**FIG. 3**

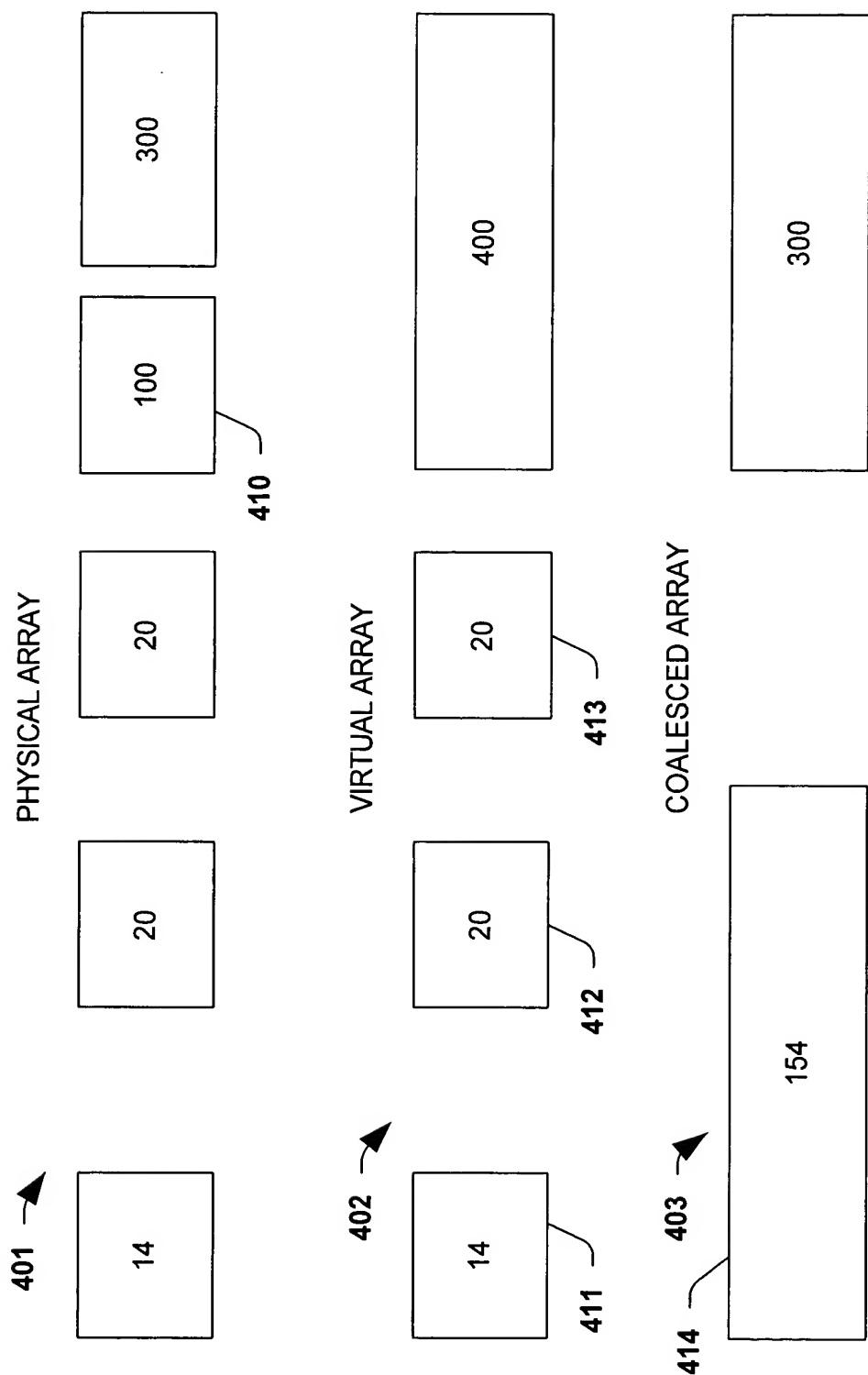
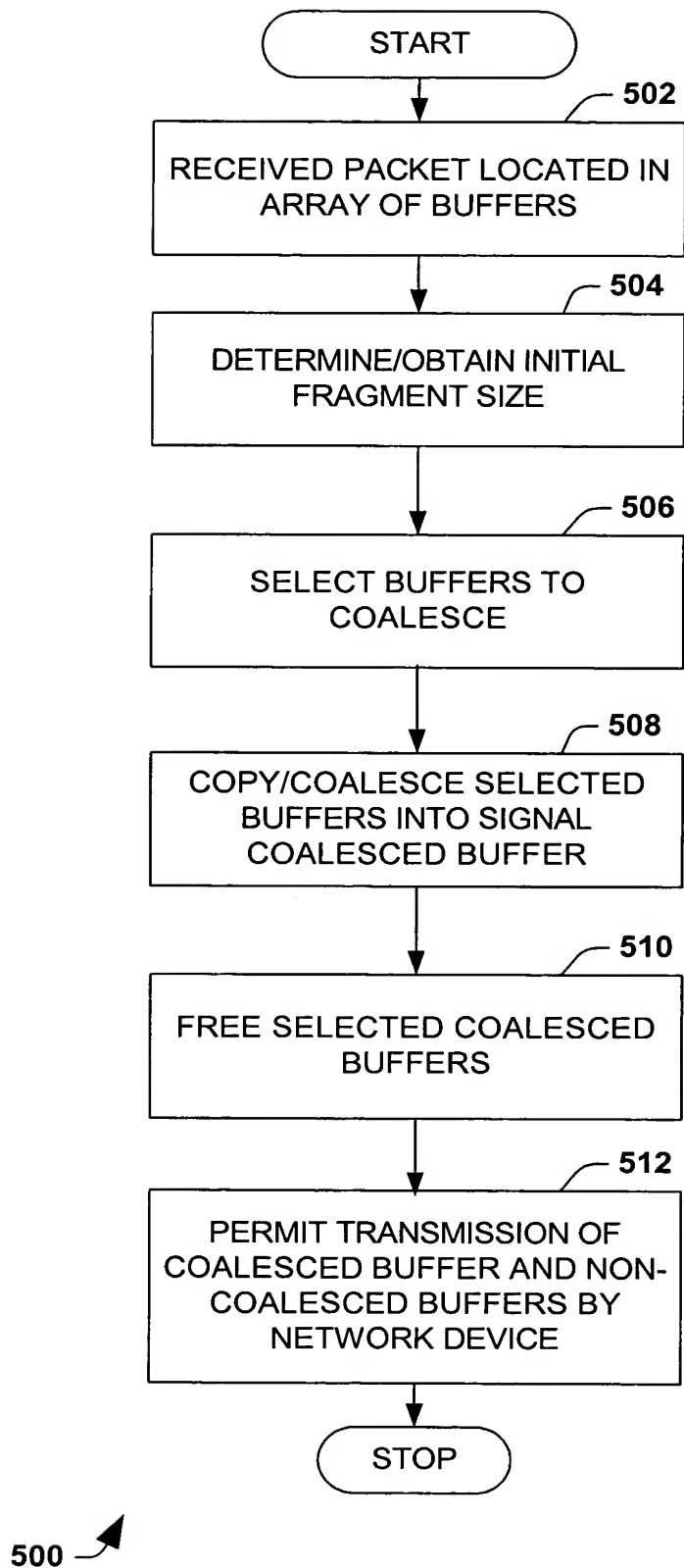
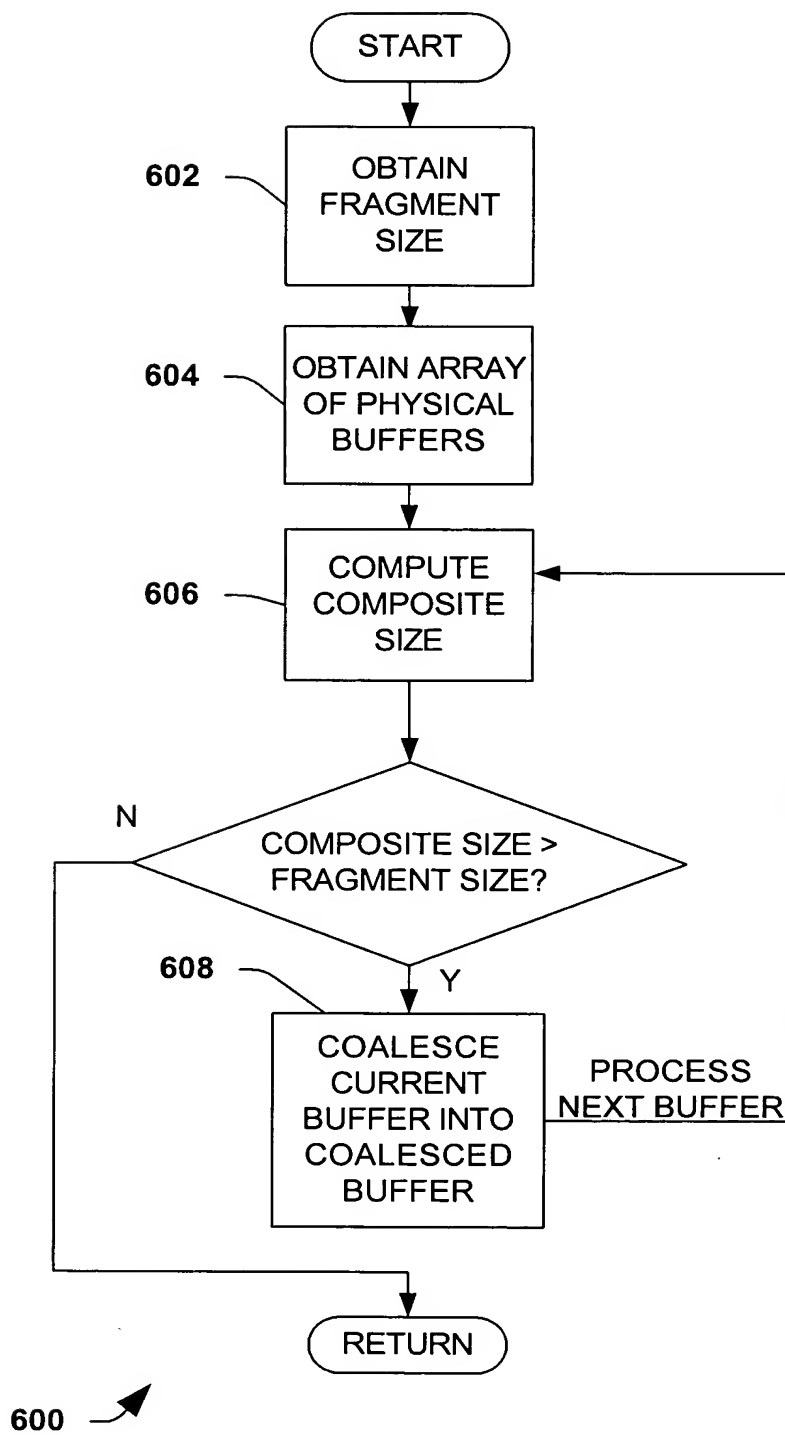
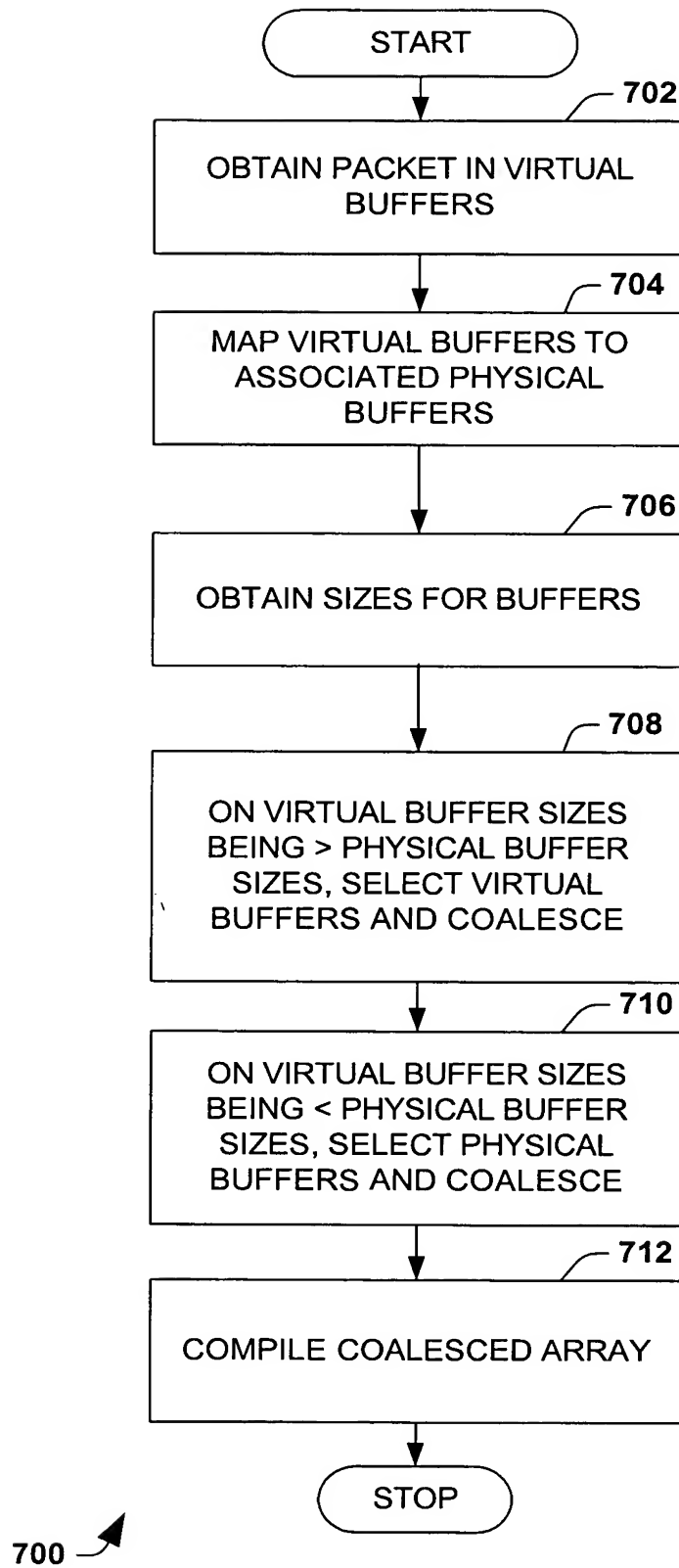


FIG. 4

**FIG. 5**

**FIG. 6**

**FIG. 7**

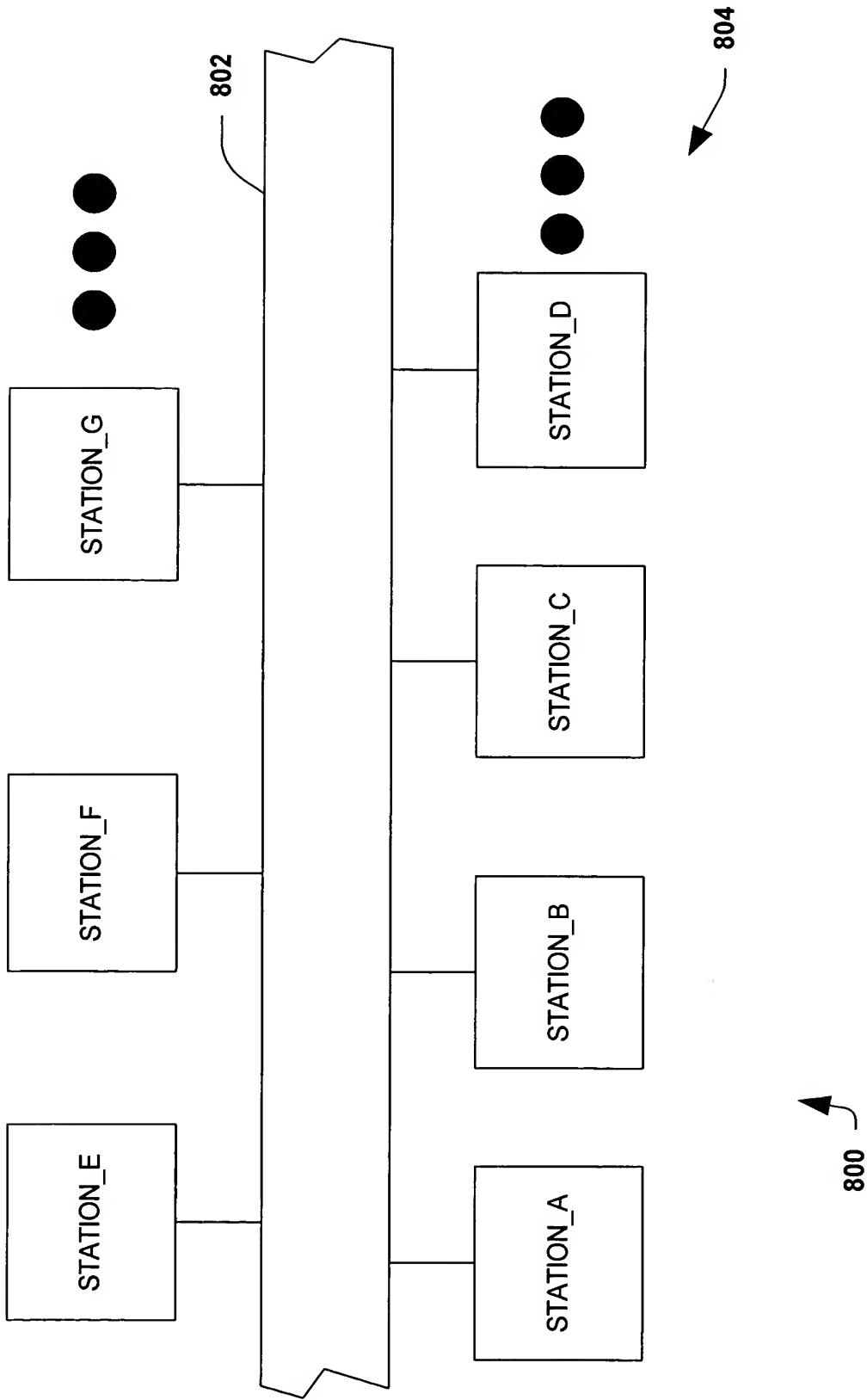
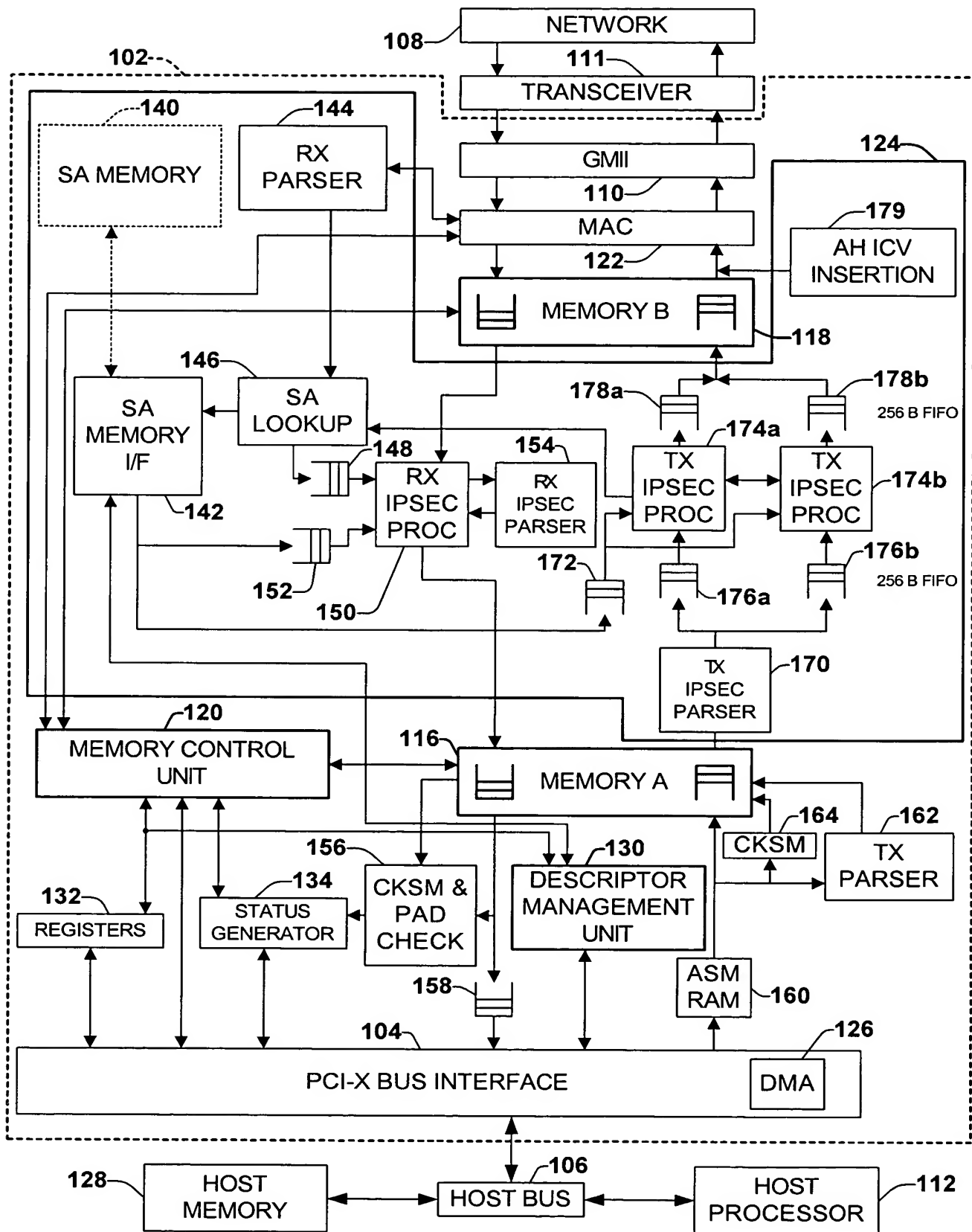


FIG. 8



**FIG. 9A**

180

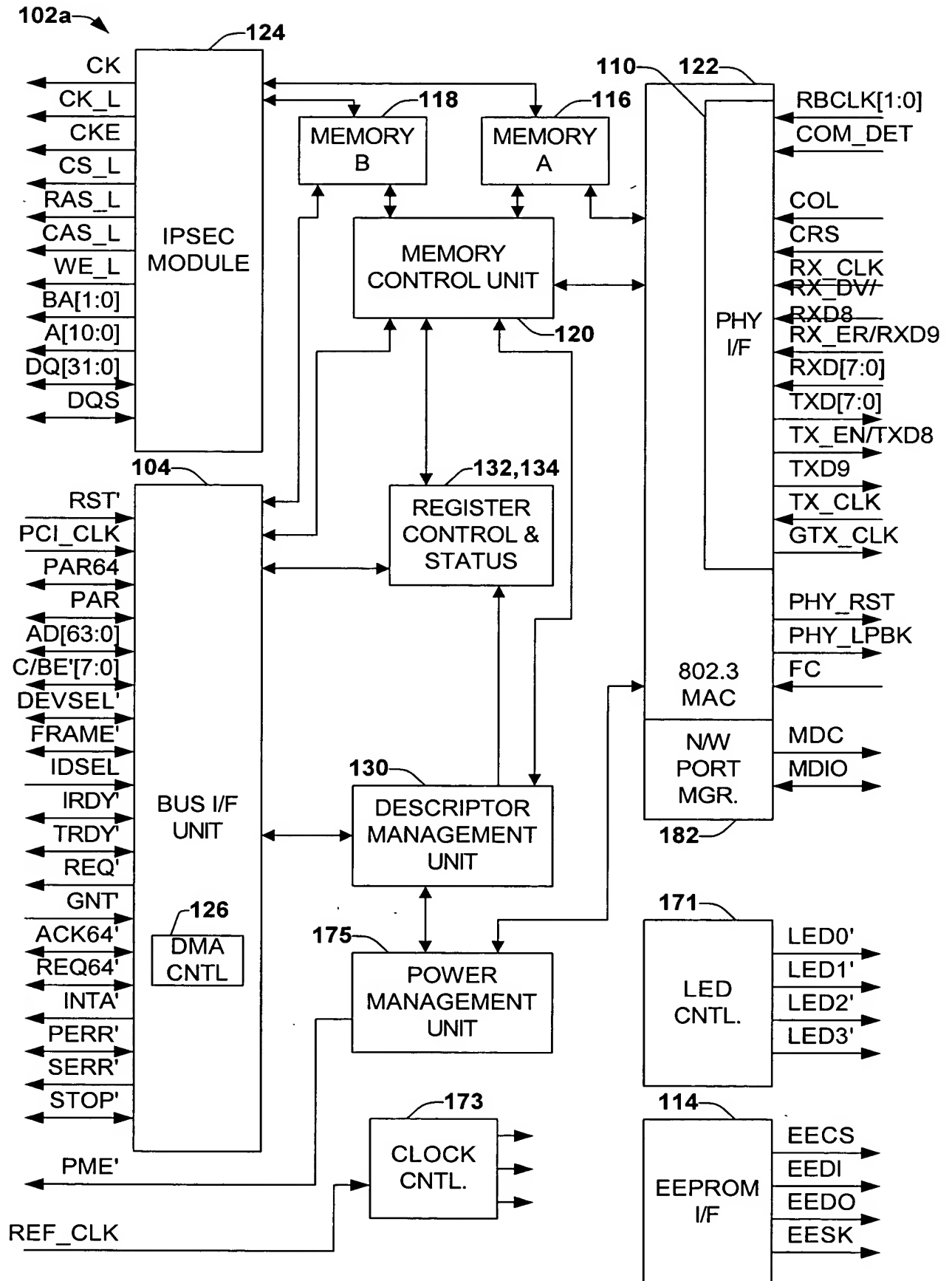


FIG. 9B

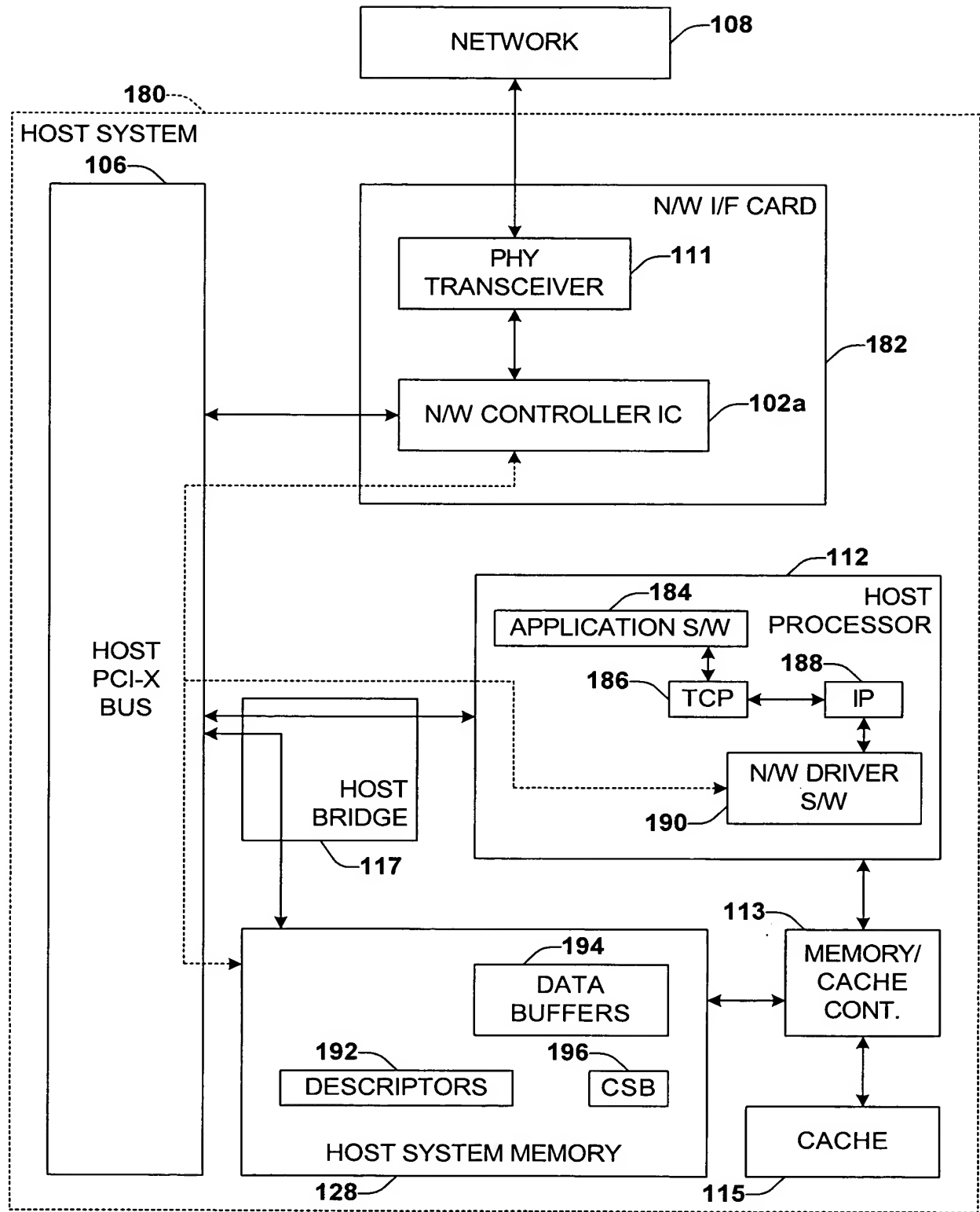


FIG. 10

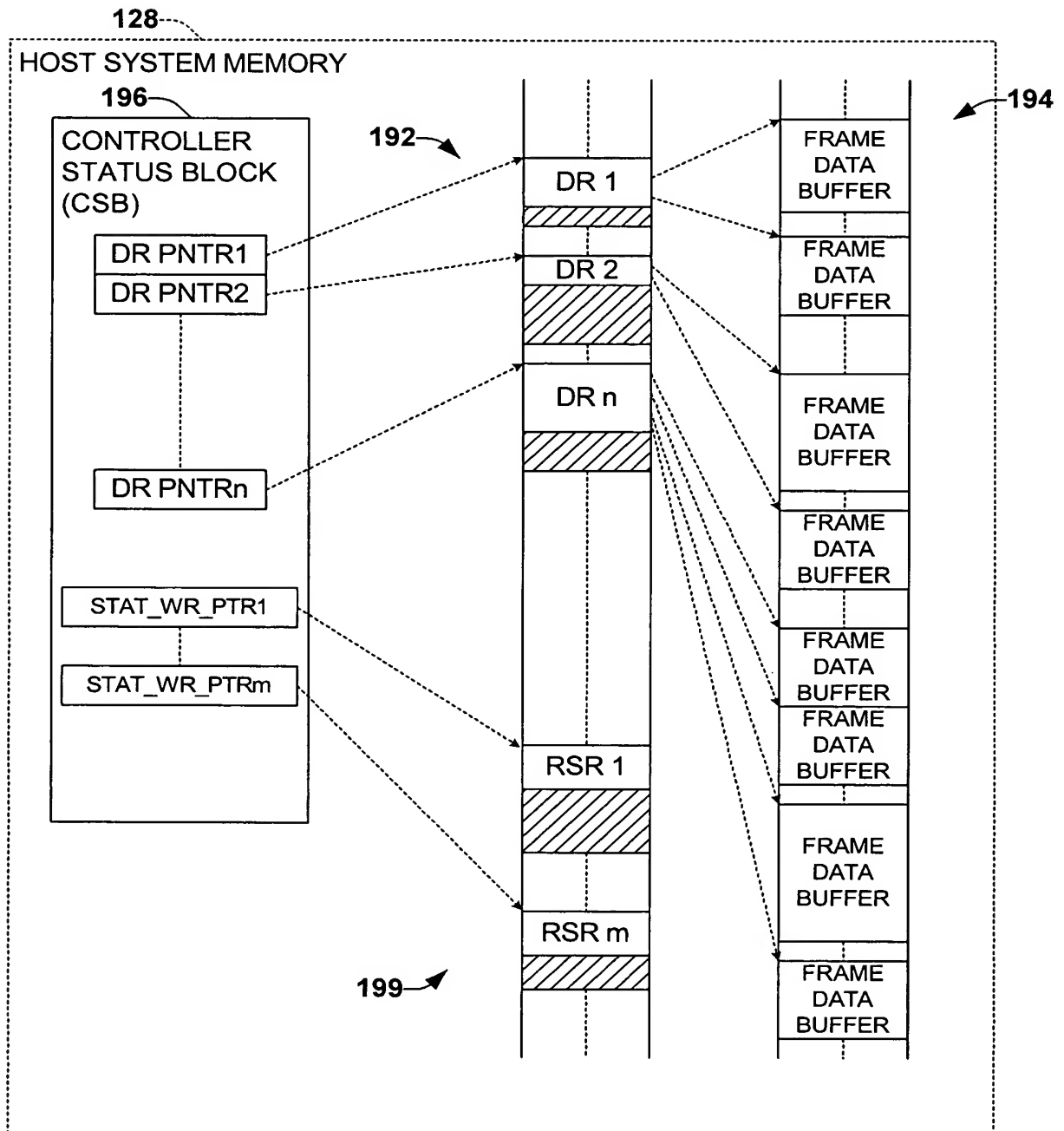


FIG. 11A

196

CSB

TX_RD_PTR0
TX_RD_PTR1
TX_RD_PTR2
TX_RD_PTR3
STAT_WR_PTR0
STAT_WR_PTR1
STAT_WR_PTR2
STAT_WR_PTR3
INT0_COPY

**FIG. 11B**

132

REGISTERS

RX_RING[3:0]_BASE
TX_RING[3:0]_BASE
RX_RING[3:0]_LEN
TX_RING[3:0]_LEN
TX_WR_PTR[3:0]
RX_WR_PTR[3:0]
STAT_RING[3:0]_BASE
STAT_RING[3:0]_LEN
RX_BUF_LEN
CSB_ADDR

**FIG. 11C**

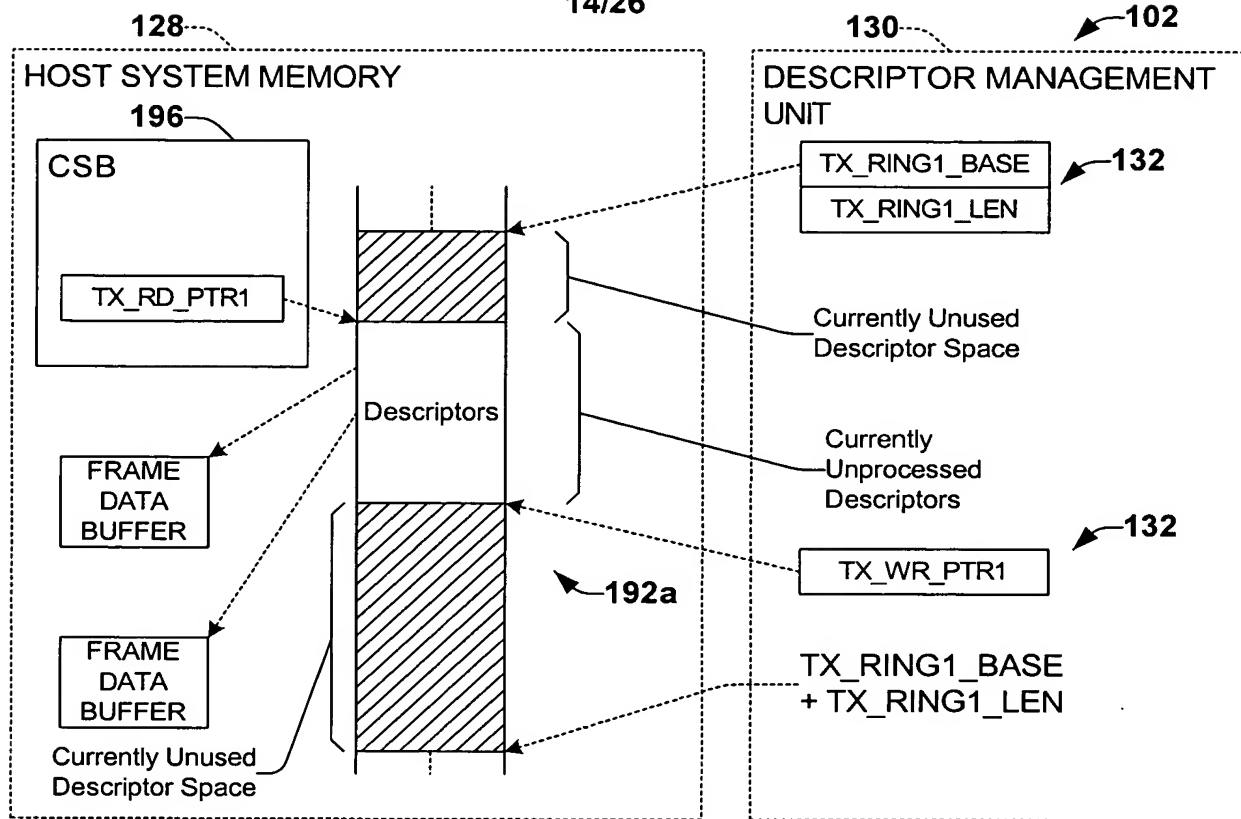


FIG. 11D

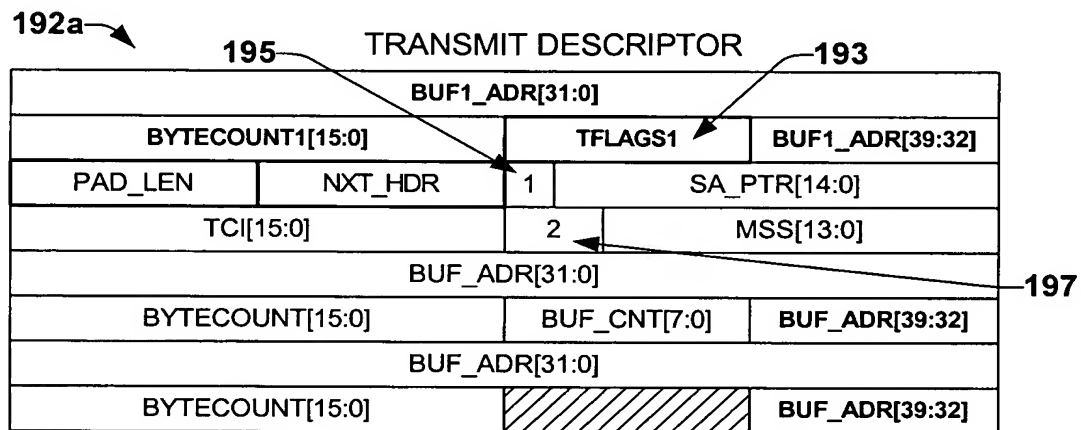


FIG. 11E

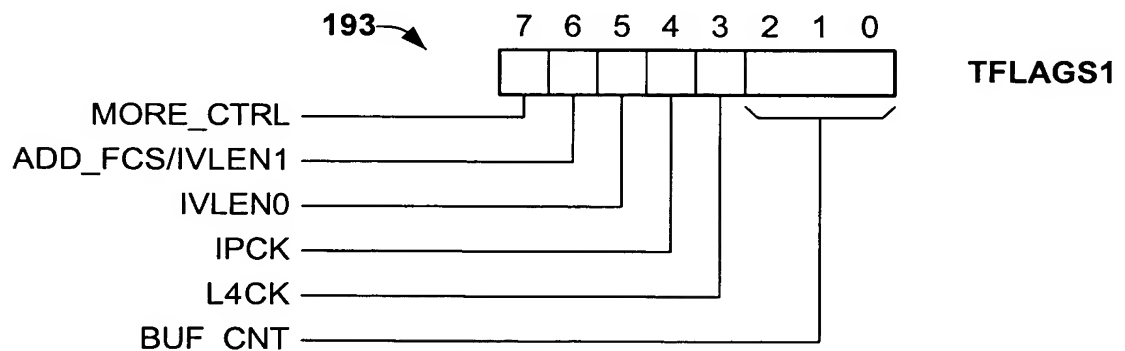


FIG. 11F

192b

# RECEIVE DESCRIPTOR

BUF_ADR[31:0]		
RES	BUF_MULT[7:0]	BUF_ADR[39:32]

FIG. 11G

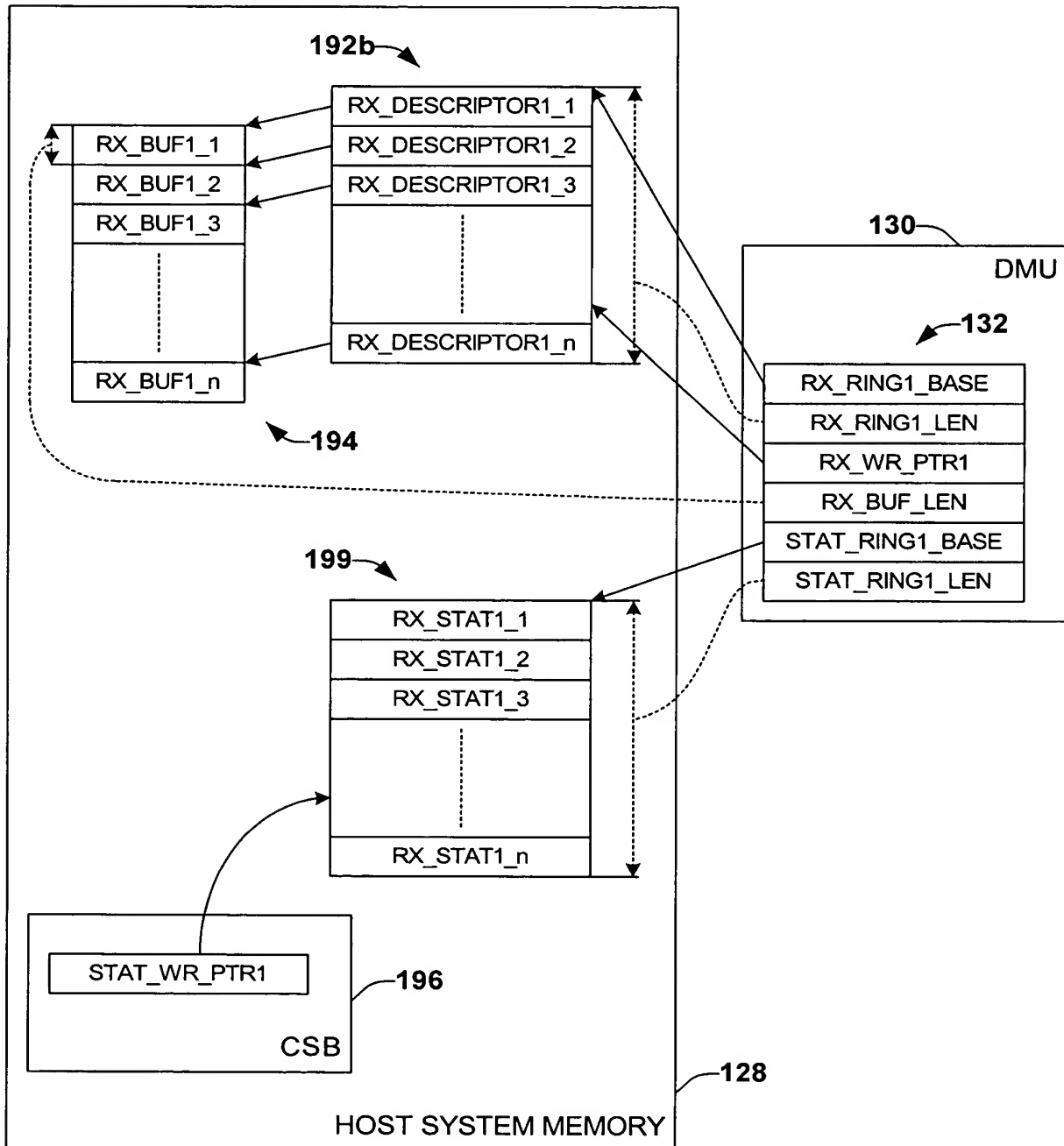


FIG. 11H

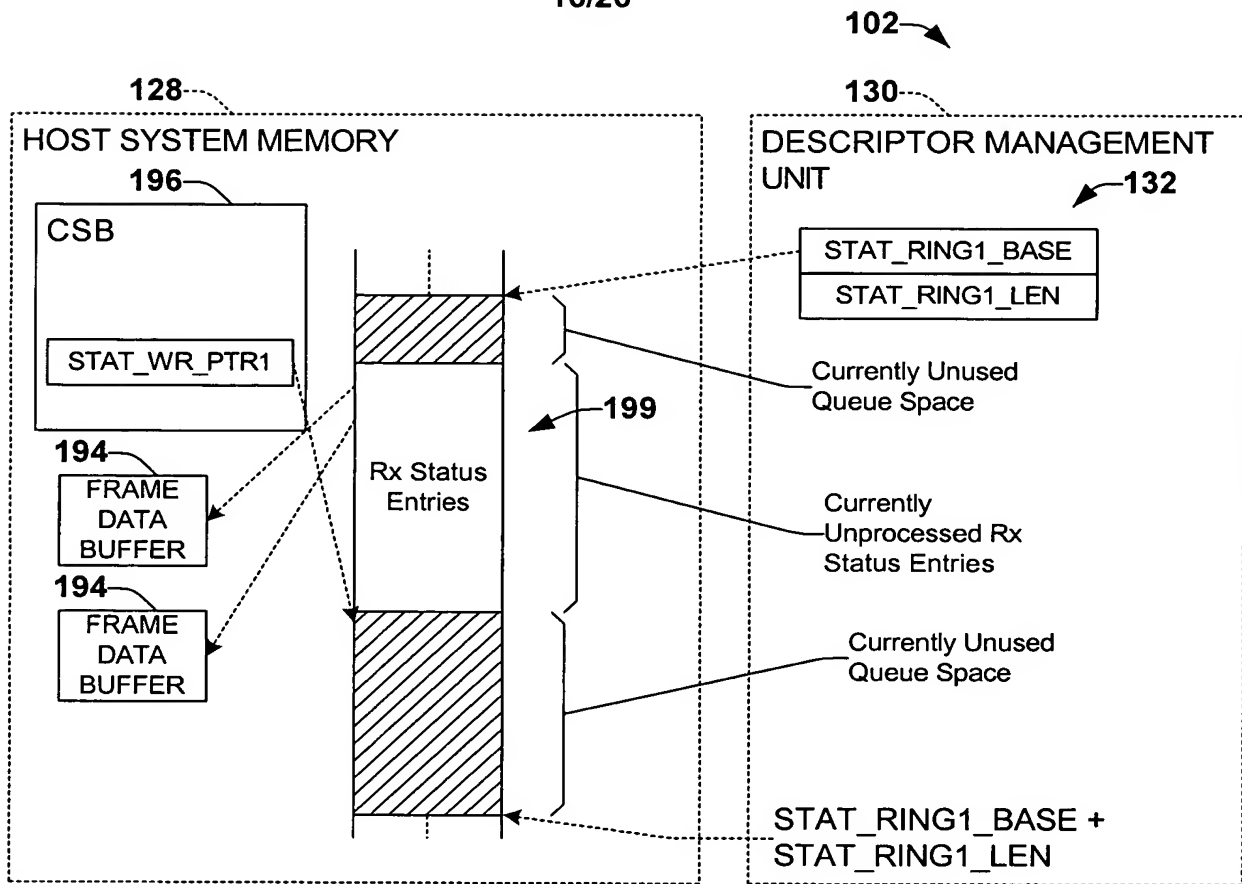


FIG. 11I

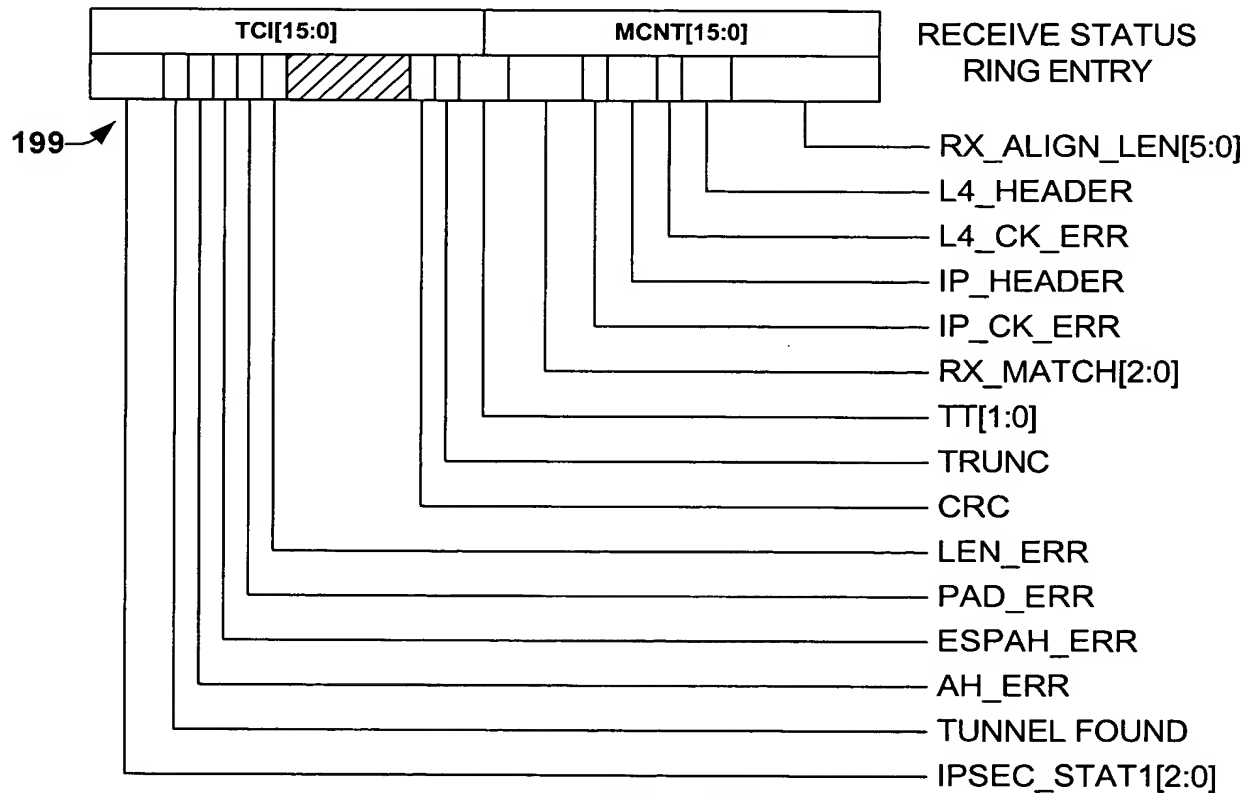
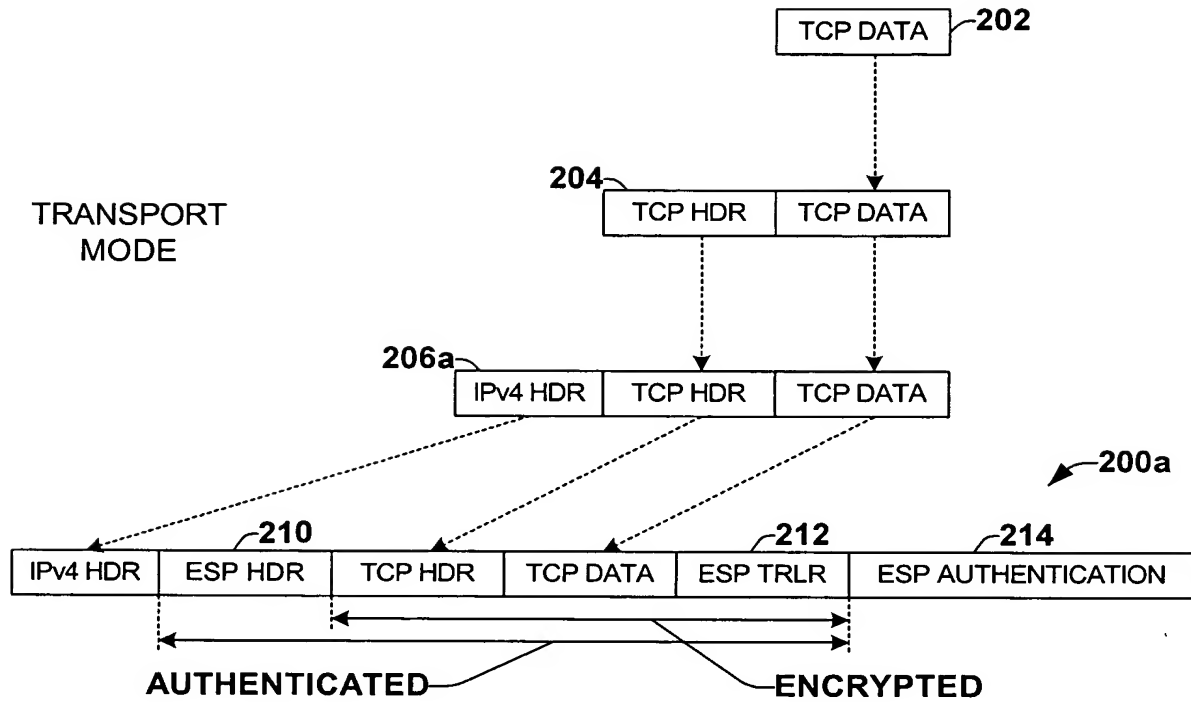
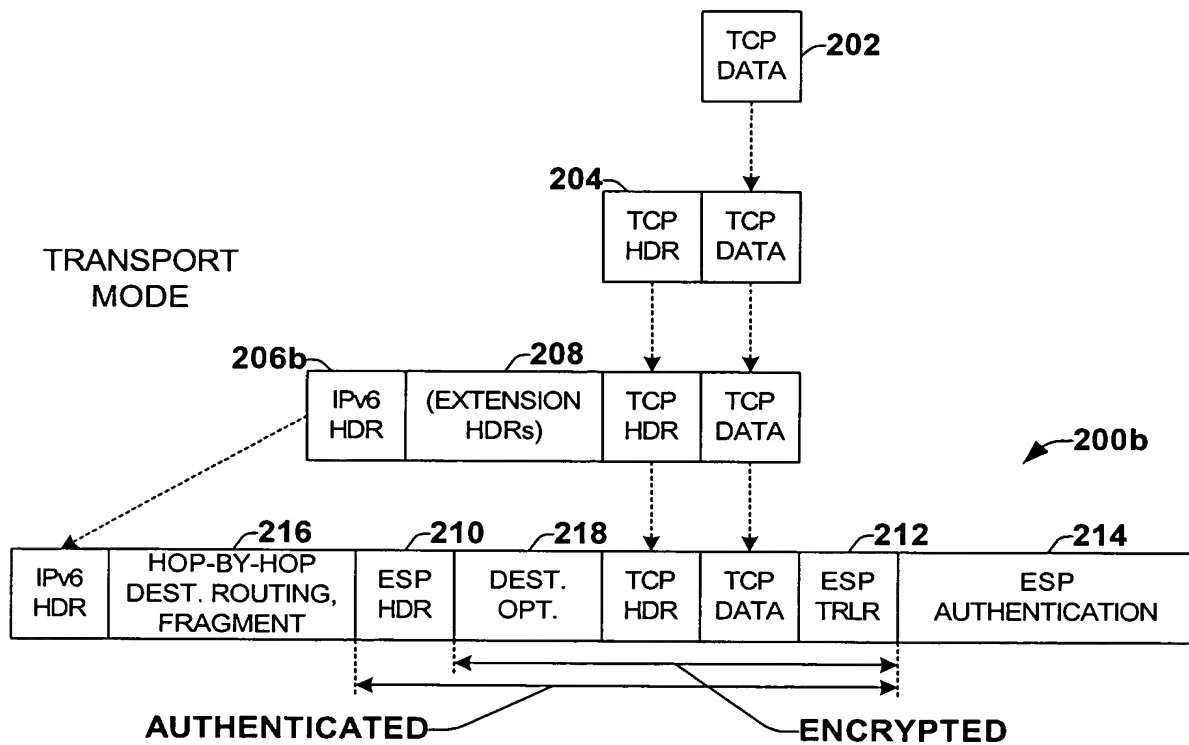


FIG. 11J



**FIG. 12A****FIG. 12B**

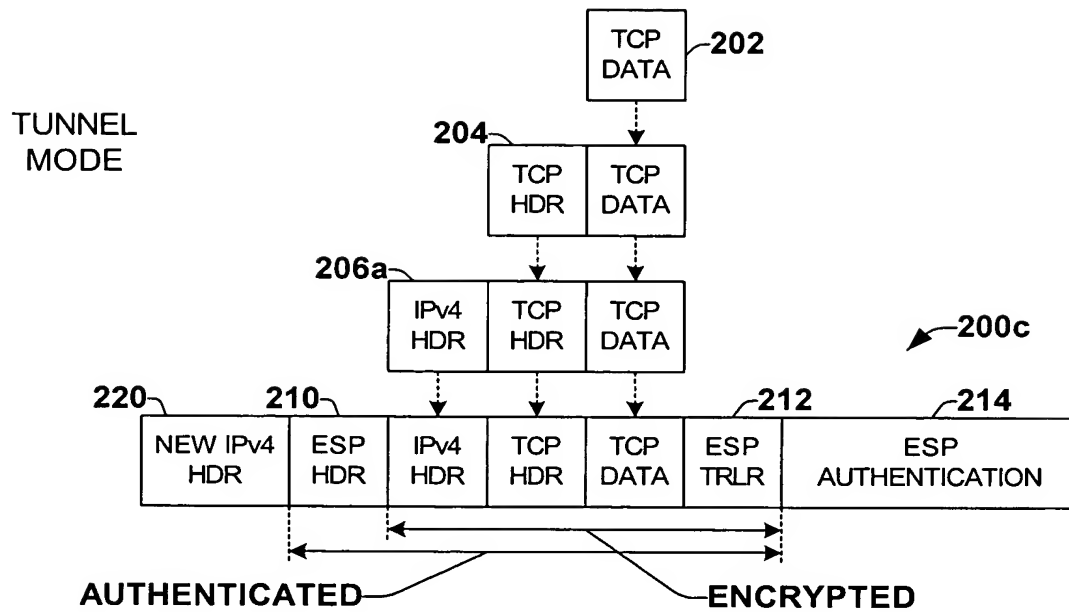


FIG. 12C

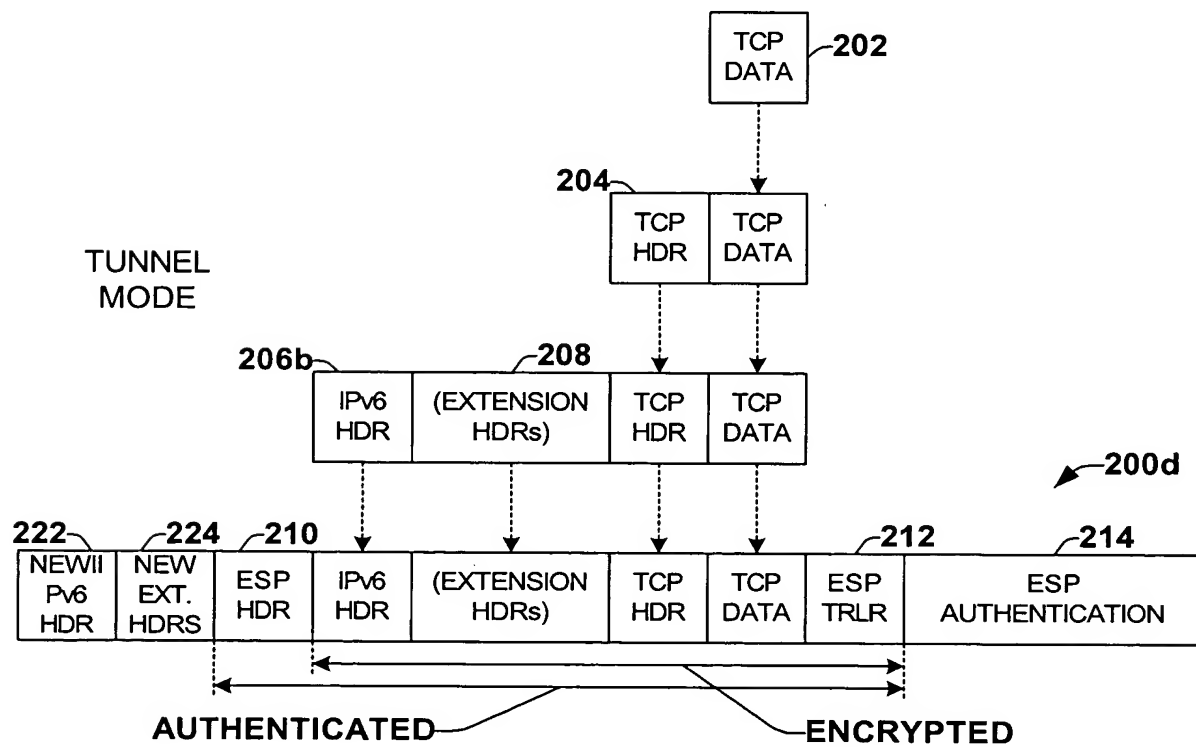
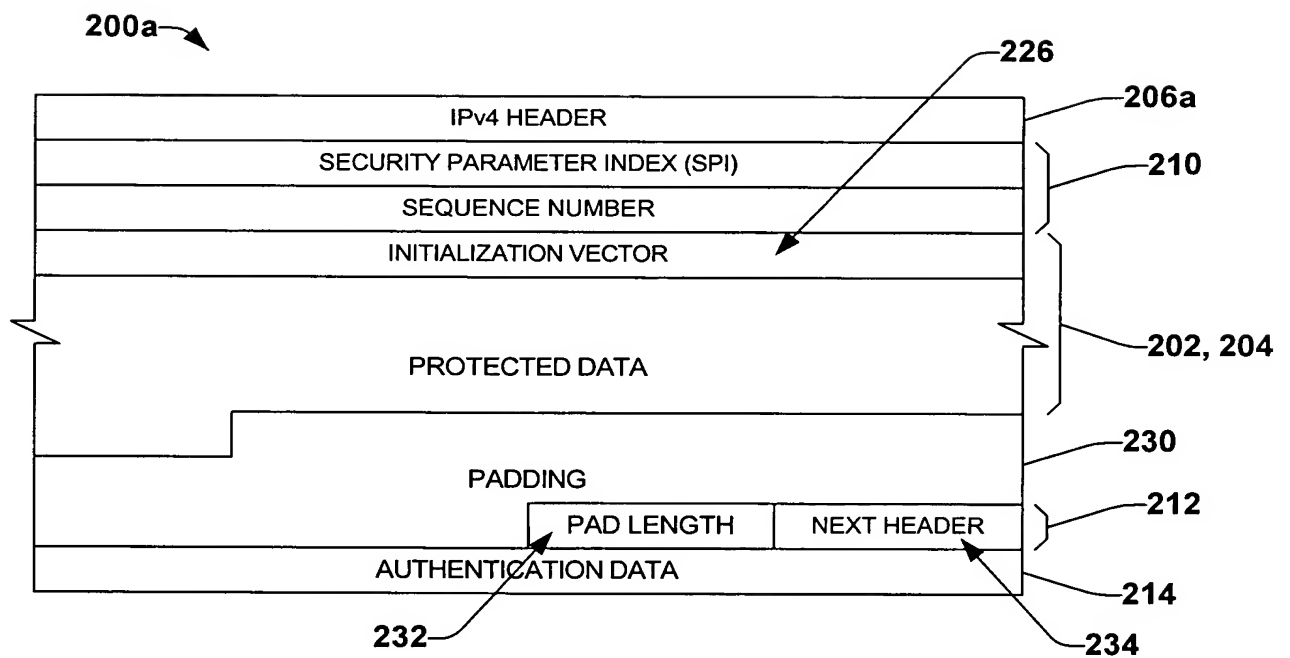


FIG. 12D

**FIG. 12E**

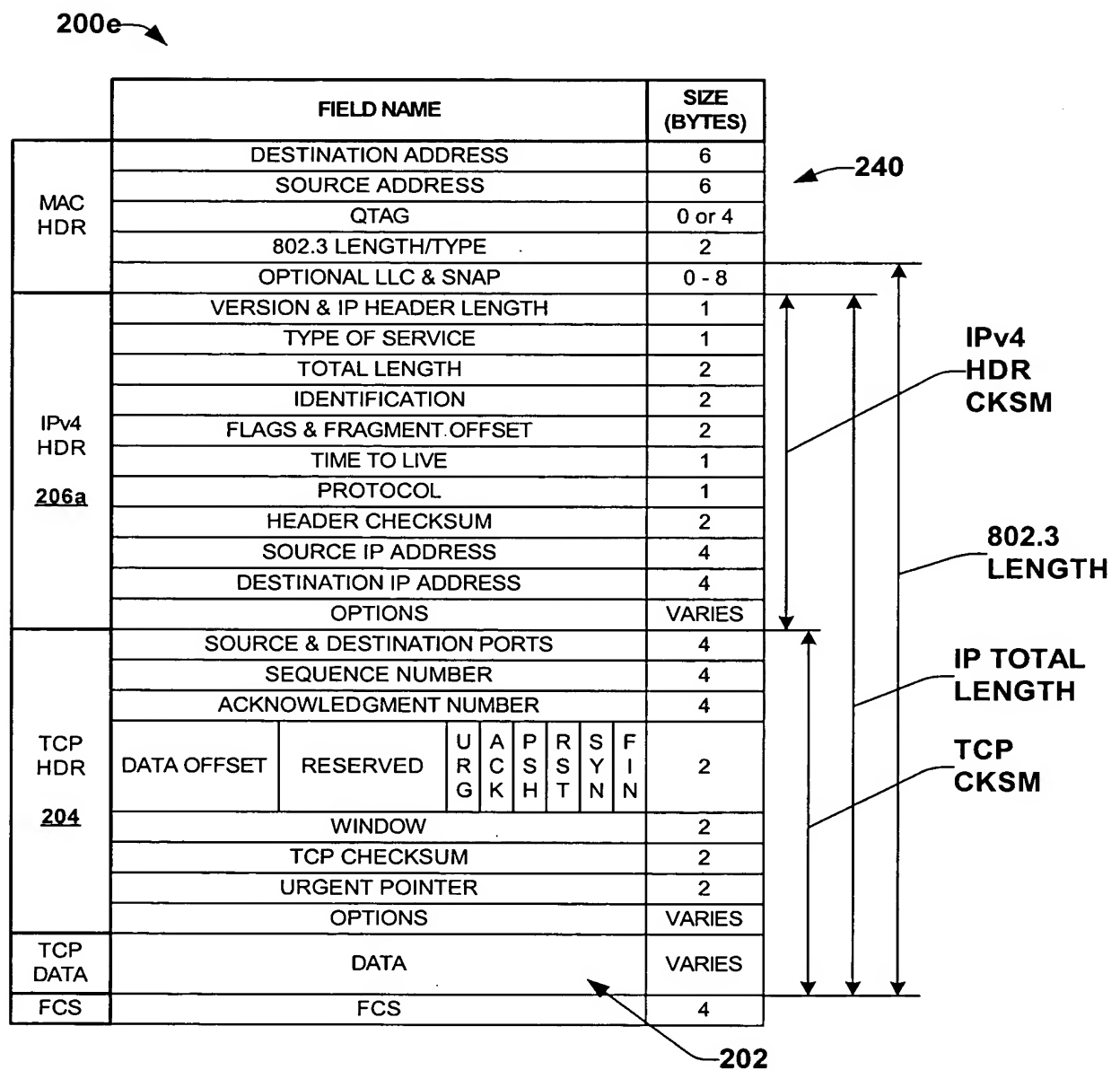


FIG. 13A

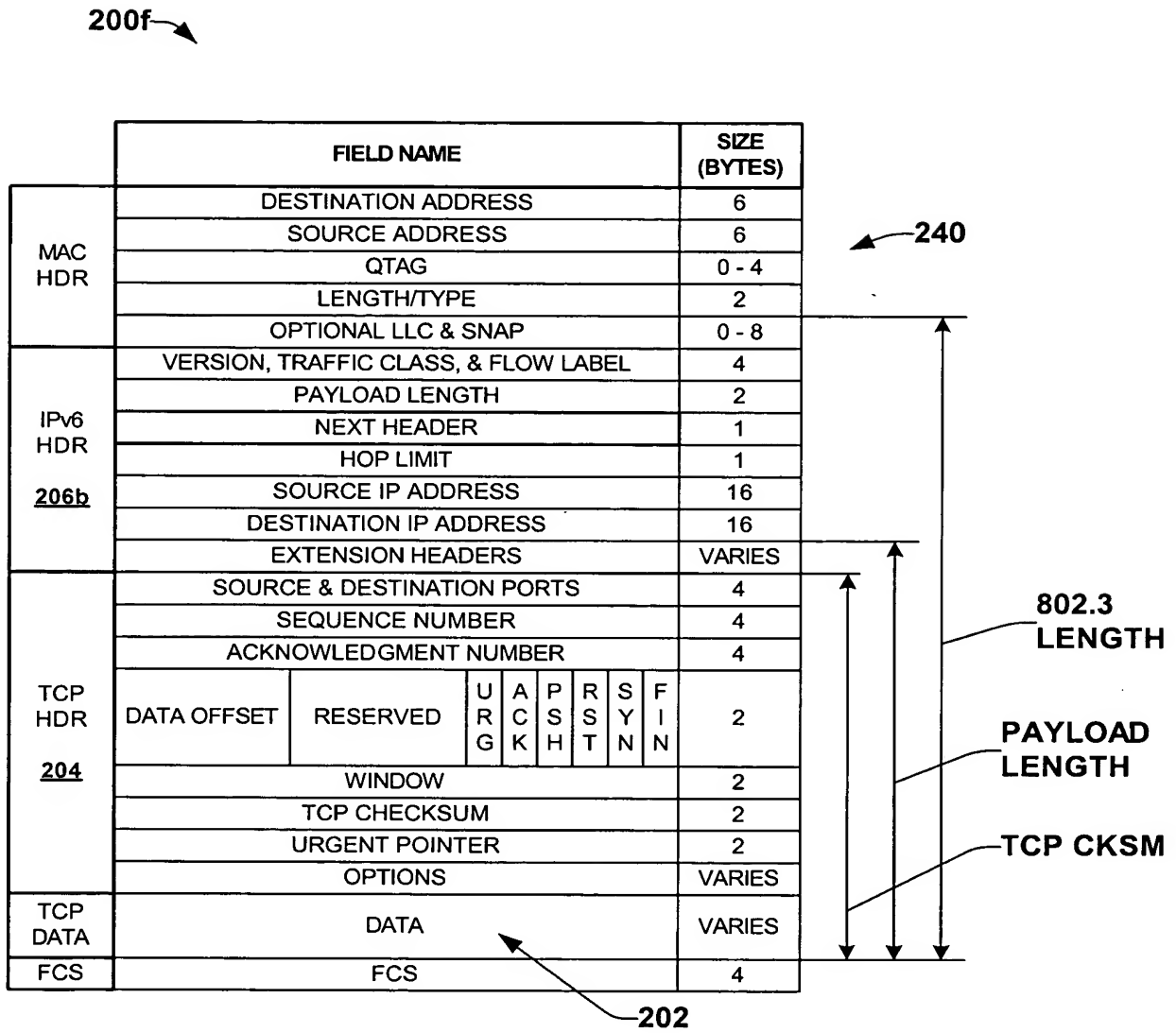


FIG. 13B

250

FIELD NAME	Created by Host	Modified by ESP	Encrypted	Covered by ESP Authentication	Added by Controller
Preamble					x
Start of Frame Delimiter					x
MAC Header	x				
IP Header	x				
ESP Header	x			x	
Payload Data	x	x	x	x	
Padding	x	x	x	x	
Pad Length	x	x	x	x	
Next Header	x	x	x	x	
Authentication Data	x	x			
Frame Check Sequence					x

FIG. 14A

252

FIELD NAME	Created by Host	Modified by AH Module	Covered by AH Authentication	Added by Controller
Preamble				x
Start of Frame Delimiter				x
MAC Header	x			
IP Header	x		x	
AH Header	x	x	x	
Other Headers	x		x	
Payload Data	x		x	
Frame Check Sequence				X

FIG. 14B

254

PHCKSM FOR IPv4	
32-BIT IP SOURCE ADDRESS	
32-BIT IP DESTINATION ADDRESS	
ZERO	PROTOCOL
TCP TOTAL LENGTH	

FIG. 14C

256

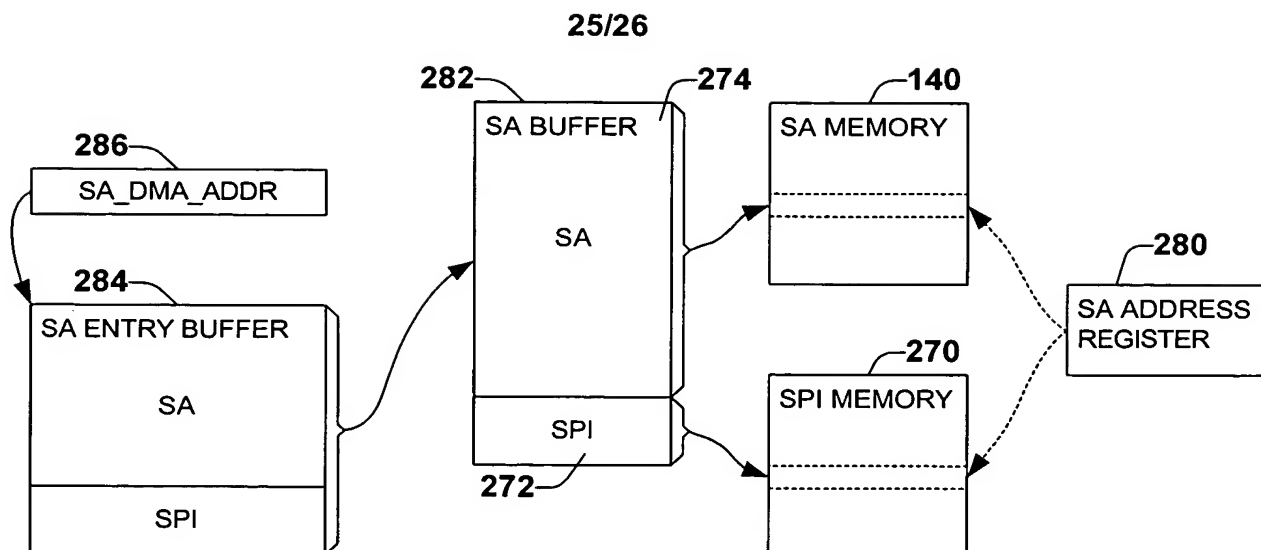
PHCKSM FOR IPv6	
128-BIT IP SOURCE ADDRESS	
128-BIT IP DESTINATION ADDRESS	
16-BIT TCP TOTAL LENGTH	
ZERO	PROTOCOL

FIG. 14D

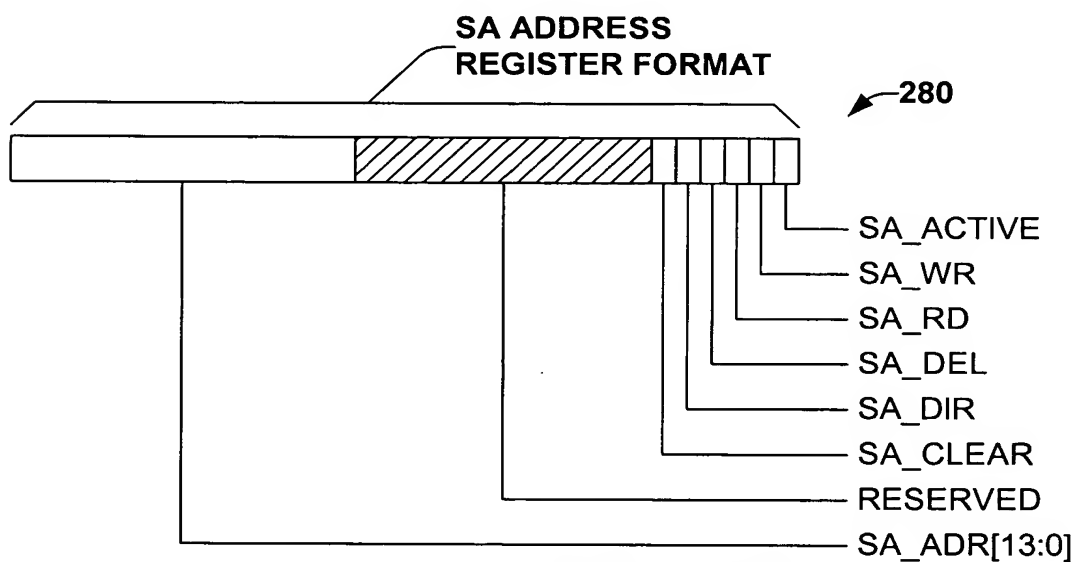
102a



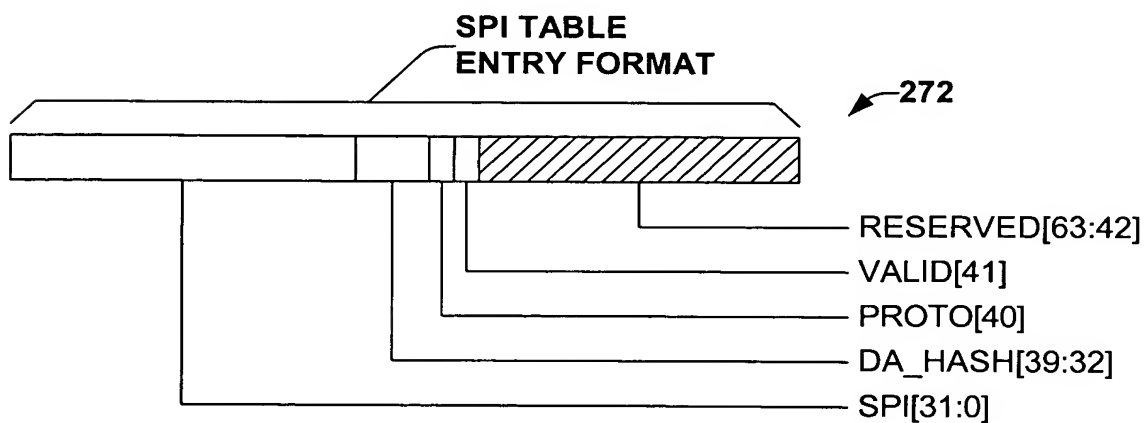




**FIG. 17A**



**FIG. 17B**



**FIG. 17C**

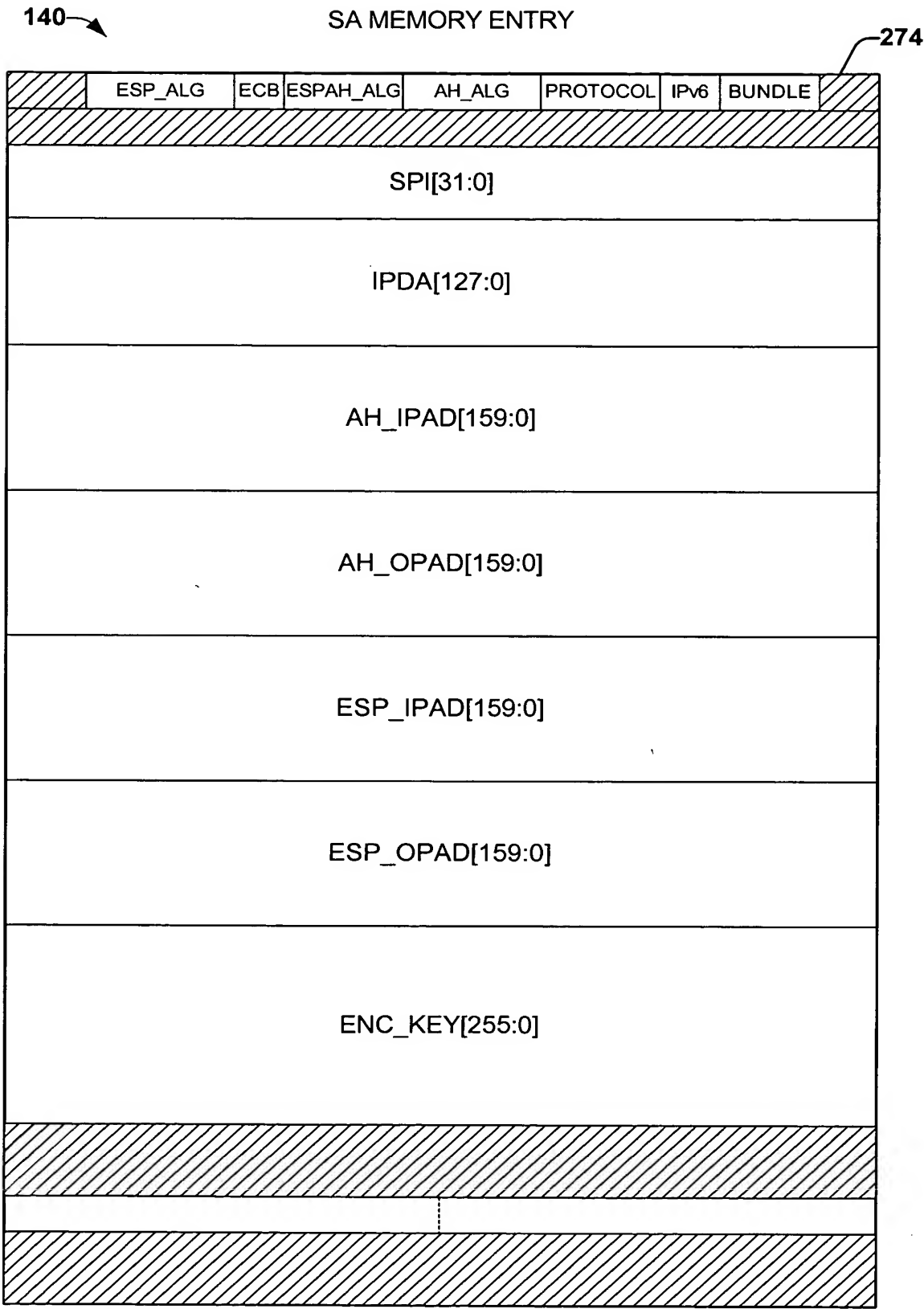


FIG. 17D